# vice Manu

Stereo Cassette Deck

Cassette Deck

System: SC-CH770

DOLBY B NR \*1

RS-CH770

#### Colour

(K): Black

# \*2, \*3 SB-CH770 \*2, \*3 SB-CH770 \*2, \*3 SB-PC10 ST-CH770 \*2, \*3 SB-PS10 \*2, \*3 SB-PS10

**RS-CH770** 

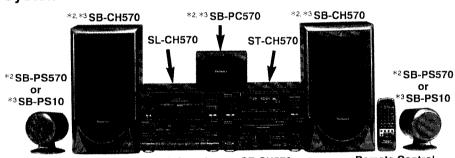
SE-CH770

**Remote Control** Transmitter

## Areas

Suffix for Model No.	Area	Colour
(E)	Europe, Asia, Latin America, Middle East, Africa and Oceania	(K)

System: SC-CH570



**RS-CH770** 

SE-CH570

Remote Control

**Transmitter** 

3SB-PS10

\*1: Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation

"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

# **AR-2 MECHANISM SERIES** Specifications (IHF '78)

# ■ Cassette Deck Section

Deck system Track system Recording system Bias frequency Erasing system

Stereo cassette deck 4-track, 2-channel AC bias 100 kHz AC erase

0.16% (WRMS)

Heads DECK 1

Playback head (Permalloy) × 1 Recording/Playback head (Permalloy) × 1 Erasing head (Double-gap ferrite) × 1

DECK 2

Motors Capstan drive (DC servo motor) × 1 **DECK 1, 2** 4.8 cm/sec. Tape speed

Wow and flutter Fast forward and rewind times

Approx. 110 seconds with C-60 cassette tape

Frequency response (Dolby NR off)

TYPE I (NORMAL) 20 Hz-1 6 kHz (DIN) TYPE II (HIGH) 20 Hz-1 6 kHz (DIN) 20 Hz-1 6 kHz (DIN) TYPE IV (METAL)

S/N (signal level = max recording level, TYPE II type tape)

56 dB (A weighted) NR off 66 dB (A weighted) Dolby NR B on

Input sensitivity and impedance

400 mV/23 kΩ REC (IN)

Output voltage and impedance

28O mV/360 Ω PLAY (OUT)

#### ■ General

Dimensions (W  $\times$  H  $\times$  D)

 $270 \times 118.5 \times 269.5 \text{ mm}$ 1.9 kg

Weight

Specifications are subject to change without notice.

Weight and dimensions are approximate.

System	Tuner/sound processor	Compact disc player	Amplifier	Cassette deck	Front speakers	Center speaker	Surround speakers	
SC-CH770	ST-CH770	SL-CH770	SE-CH770		*2, *3 SB-CH770	*2, *3 SB-PC10	*2.*3 SB-PS10	
	ST-CH570	SL-CH570	SE-CH570	RS-CH770	*2. *3 SB-CH570	*2 SB-PT570		
CC 011570						*2 SB-PC570	*2SB-PS570	
SC-CH570						*3 SB-PT570A		
						*3 SB-PC570	*3 S B-PS10	

<sup>\*2</sup> For Europe area: ...... Made in PAES

**Technics** 

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<sup>\*3</sup> Except for Europe area : ..... Made in NABEL

#### **<b>∆WARNING**

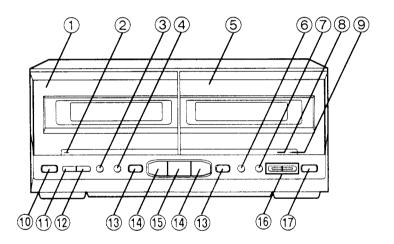
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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#### NOTE:

Refer to the service manual for Model No. SE-CH770 (ORDER No. AD9603055C8) or SE-CH570 (ORDER No. AD9603054C8) for information on "Accessories", "Stacking the Components", "Connections" and "Packaging".

# Location of Controls



- 1 Deck 1 cassette holder
- 2 Deck 1 indicator (DECK 1)
- ③ Deck 1/deck 2 select button (DECK 1/2)
- 4 Reverse mode select button (REV MODE)
- **(5) Deck 2 cassette holder**
- 6 Dolby noise reduction button (DOLBY NR)
- ⑦ Record pause button (● REC PAUSE)
- (8) Record pause indicator (REC PAUSE)
- Deck 2 indicator (DECK 2)
- ① Deck 1 cassette holder open button (▲ OPEN)
- (1) Counter reset button (RESET)
- ② Counter display button (DISPLAY)
- 1 Playback buttons and indicators  $(\triangleleft, \triangleright)$
- (15) Stop button (□)
- (6) Tape edit buttons (TAPE EDIT, NOR, HIGH)
- ① Deck 2 cassette holder open button (▲ OPEN)

# ■ OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT PROCEDURES

# NOTE

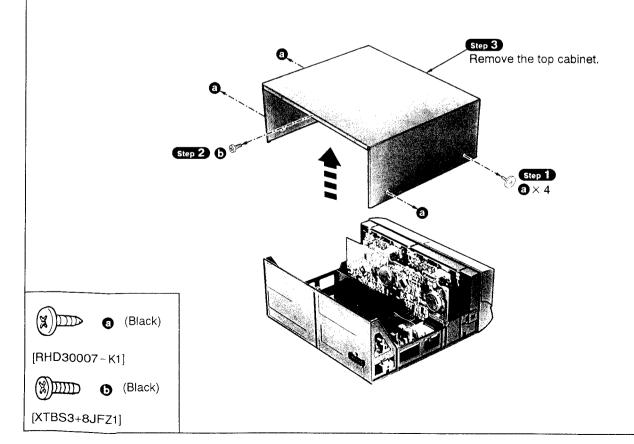
- 1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
- 3. Select items from the following index when checks or replacement are required.
- 4. Illustrated screws are equivalent to actual size.
- 5. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

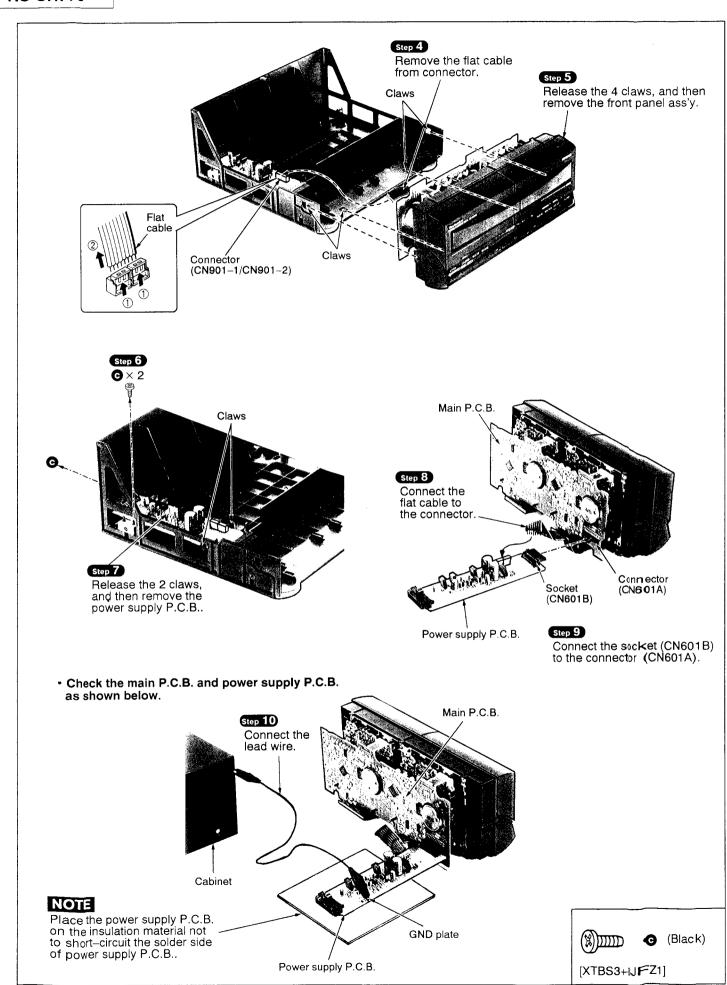
# Contents

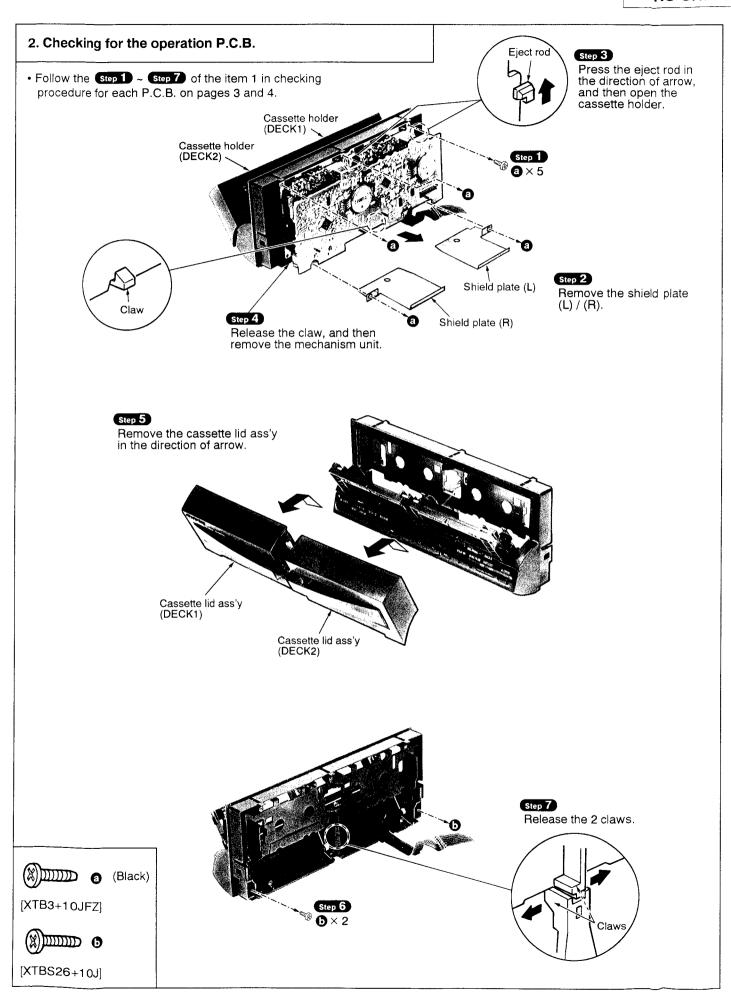
•Checking Procedure for each P.C.B.	Page.
1. Checking for the main P.C.B. and power supply P.C.B • • • • • • • • • • • • • • • • • •	• • 3,4.
2. Checking for the operation P.C.B	• • 5,6.
•Main Component Replacement Procedures	
1. Replacement for the cassette lid ass'y, ••••••••••••••••••••••••••••••••••••	••• 7.
2. Replacement for the cassette holder.	• • • 7.
3. Replacement for the motor ass'y, capstan belt and winding belt.	8~11.
4. Replacement for the plunger ass'y and the parts mounted on mechanism P.C.B •••••••••••••••••	11,12.
5. Replacement for the head block and pinch roller ass'v. • • • • • • • • • • • • • • • • • • •	• • • 12

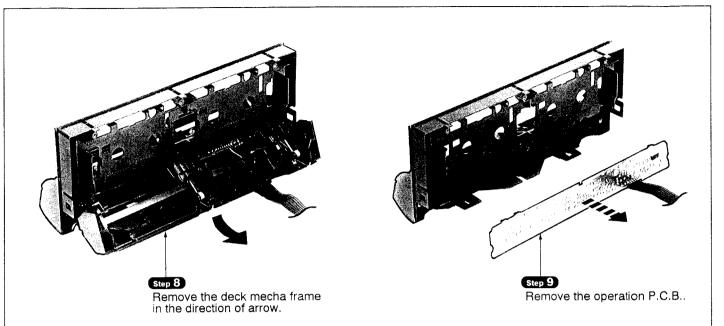
# Checking Procedure for each P.C.B.

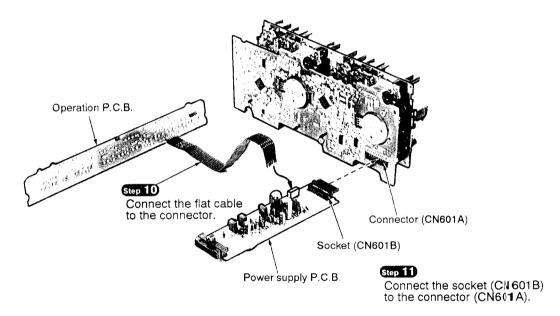
1. Checking for the main P.C.B. and power supply P.C.B.



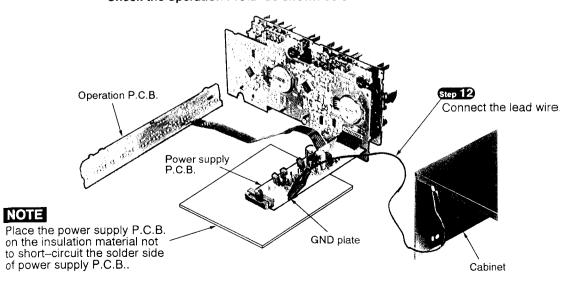








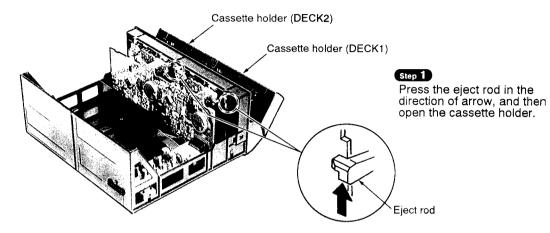
• Check the operation P.C.B. as shown below.

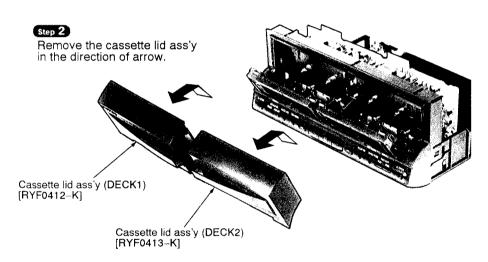


# ■ Main Component Replacement procedures

## 1. Replacement for the cassette lid ass'y

• Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B. on page 3.





## 2. Replacement for the cassette holder

Follow the step 1 ~ step 5 of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.

 Follow the step 1 ~ step 8 of the item 2 in checking procedure for each P.C.B. on pages 5 and 6.

Cassette holder ass'y (DECK1)
[RFKLACH430GB]

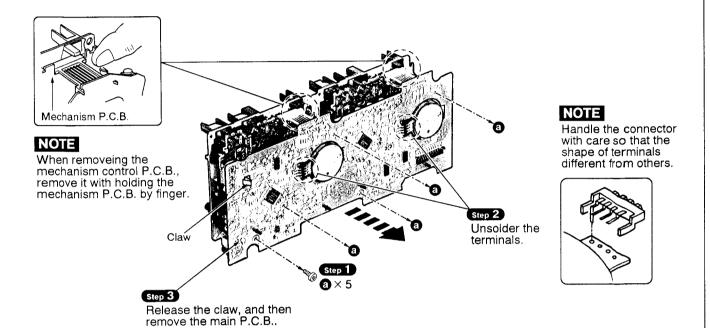
Release the lug of cassette holder in the direction of arrow.

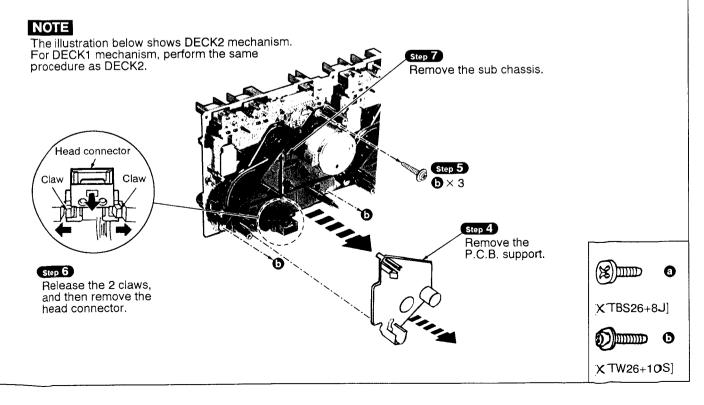
Open spring

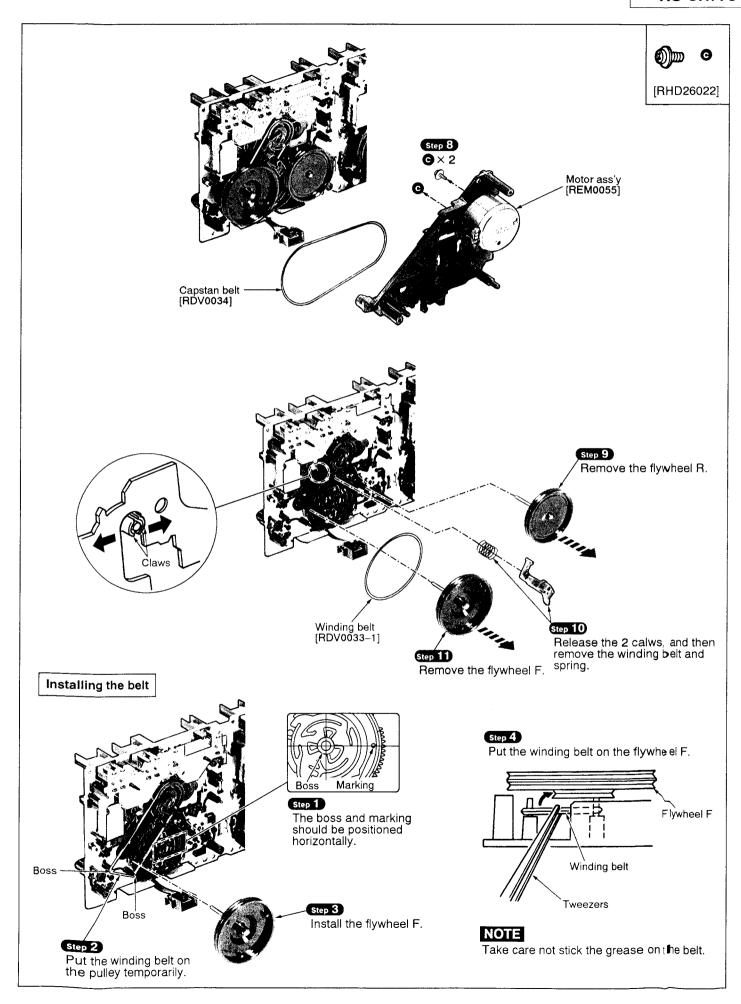
Open spring installation

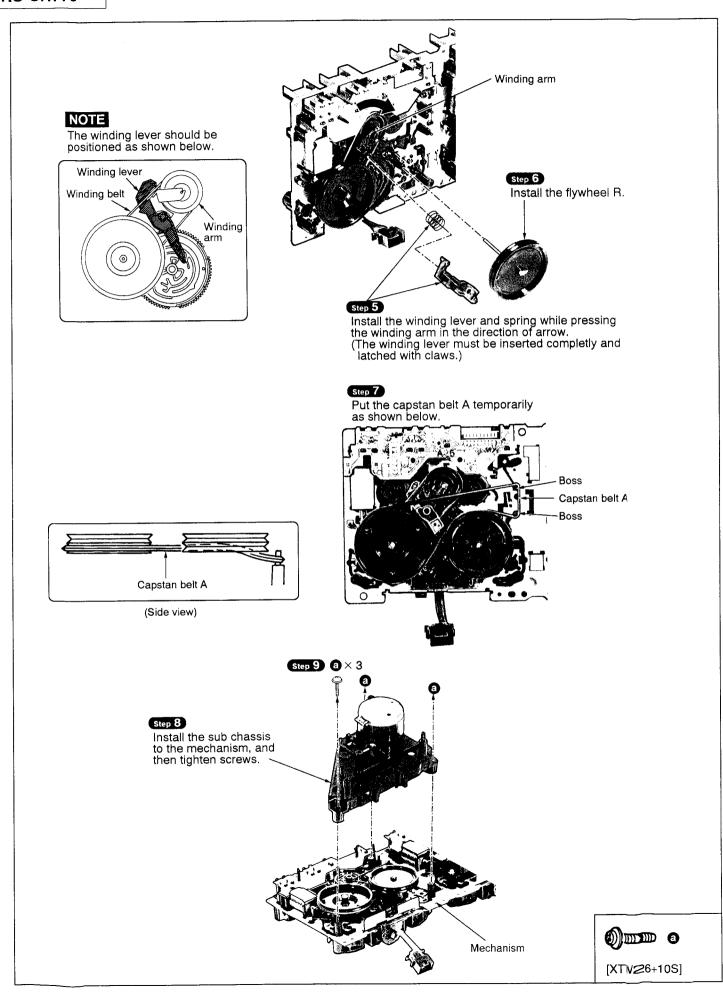
# 3. Replacement for the motor ass'y, capstan belt and winding belt

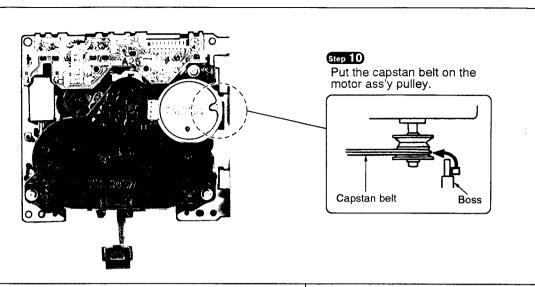
- Follow the Step 1 ~ Step 5 of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.
- Follow the Step 1 ~ Step 4 of the item 2 in checking procedure for each P.C.B. on page 5.



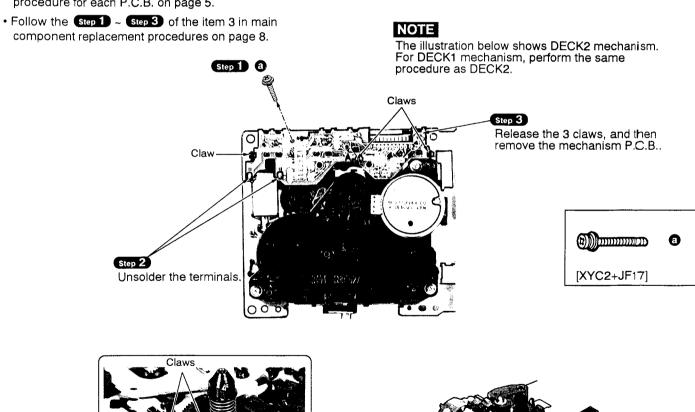


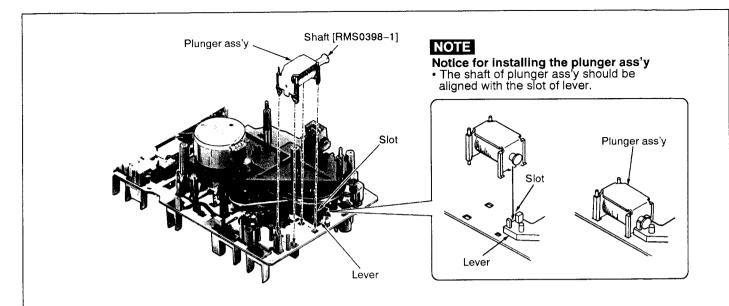






- 4. Replacement for the plunger ass'y and the parts mounted on mechanism P.C.B.
- Follow the step 1 ~ step 5 of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.
- Follow the step 1 ~ Step 4 of the item 2 in checking procedure for each P.C.B. on page 5.





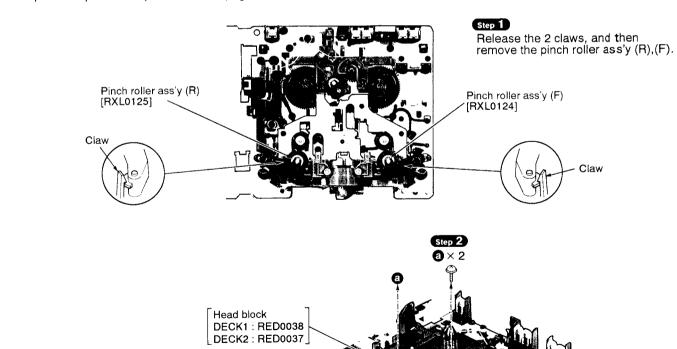
# 5. Replacement for the head block and pinch roller ass'y

- Follow the Step 1 ~ Step 5 of the item 1 in checking procedure for each P.C.B. on pages 3 and 4.
- Follow the Step 1 ~ Step 4 of the item 2 in checking procedure for each P.C.B. on page 5.
- Follow the Step 1 ~ Step 3 of the item 3 in main component replacement procedures on page 8.

Step 3

# NOTE

The illustration below shows DECK2 mechanism. For DECK1 mechanism, perform the same procedure as DECK2.



Release the 2 claws, and then remove the head connector.

[XTW2+5L]

Head connector

# ■ Service Mode Function of Cassette Mechanism

This unit is equipped with a service mode function of cassette mechanism using the LED indicators [R. PLAY (◄), F. PLAY (▶)] and cassette holder illuminations [DECK 1, DECK 2]. Use this function during maintenance to check faults of the items below.

## Cassette tapes to be prepared

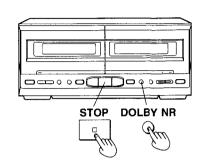
Recorded music tape with only one erase-prevention tab intact (use middle portion Metal tape:

Normal tape: ) Recorded music tape with both erase-prevention tabs intact (use middle portion of

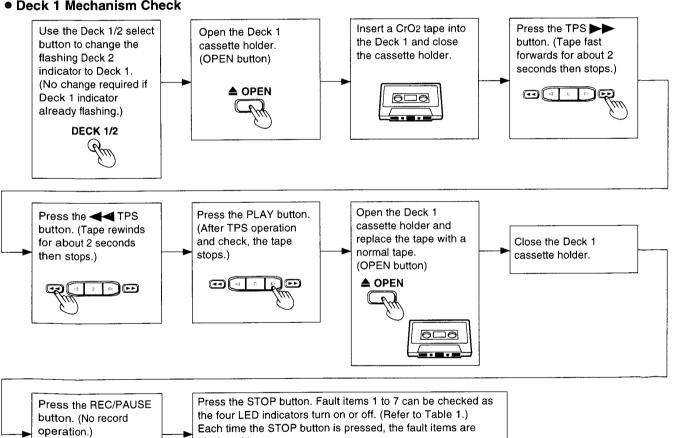
CrO2 tape: | tape).

## Selecting Service Mode

- 1. Turn on the power to the unit. (If RS-CH770 unit is removed from system, turn it on according to the procedure on page 15.)
- 2. Check that no tape is inserted in the cassette deck. Press the DOLBY NR button for about 2 seconds, and keep pressing it, also press the STOP button for about 2 seconds. (Service mode cannot be selected with a tape inserted in the cassette deck.)
- 3. The LED indicator for REC PAUSE flashes, the service mode has been activated.



#### Deck 1 Mechanism Check



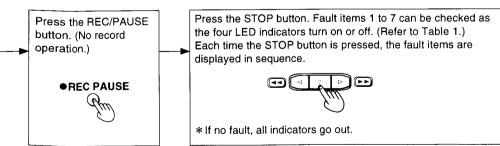


Table 1: Service Mode Diagnostic Items

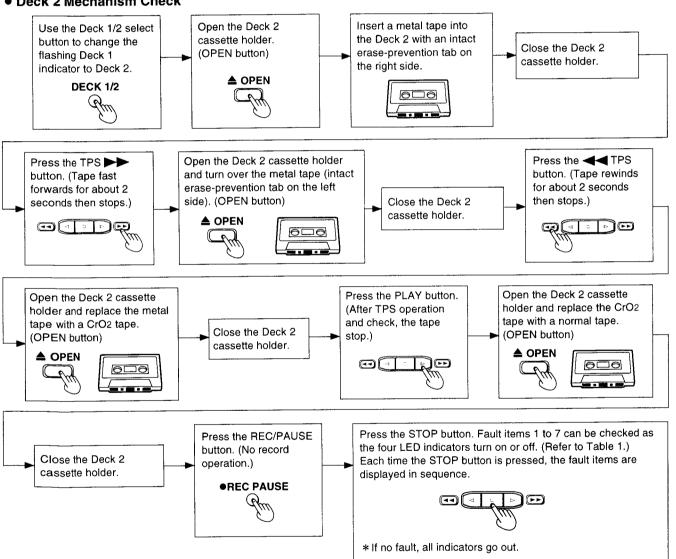
Table 1. delyice Mode Diagnostic Remo										
	LED ind	icator and	illumination st	<b>5</b> 114 0						
No.	•		DECK 1	DECK 2	Fault location					
1.	_		_	•	MODE detect switch					
2.			•	<u> </u>	REC prevention switch					
3.			•	•	Half detect switch					
4.	_	•	•	_	CrO2 tape detect switch					
5.	_	•	•	•	Metal tape detect switch					
6.	•	_		_	Reel pulse detect system (Hall IC, etc.)					
7.	•			•	TPS operation					

#### Notes:

" ● " : ON " — " : OFF

\* If no fault, all indicators go out.

#### Deck 2 Mechanism Check



# • Exiting Self-Check Mode

- 1. Press the STOP button for more than 6 seconds. (Diagnostic contents stored in memory for both Deck 1 and 2 are erased.)
- 2. Remove the cassette tape from the cassette holder.
- 3. Turn off the unit.



# ■ Measurements and Adjustments

This unit RS-CH770 is designed to operate on power supplied from the Amplifier (SE-CH570 or SE-CH770) through Tuner/Sound Processor (ST-CH570 or ST-CH770).

When connecting the unit to other system components, do not connect to the Amplifier (SE-CH570 or SE-CH770) directly. Be sure to connect this unit through the Tuner/Sound Processor (ST-CH570 or ST-CH770).

When operating the unit RS-CH770 alone for testing and servicing, without having power supplied from the Amplifier (SE-CH570 or SE-CH770) and the Tuner/Sound Processor (ST-CH570 or ST-CH770), use the following method.

# To Supply Power Source

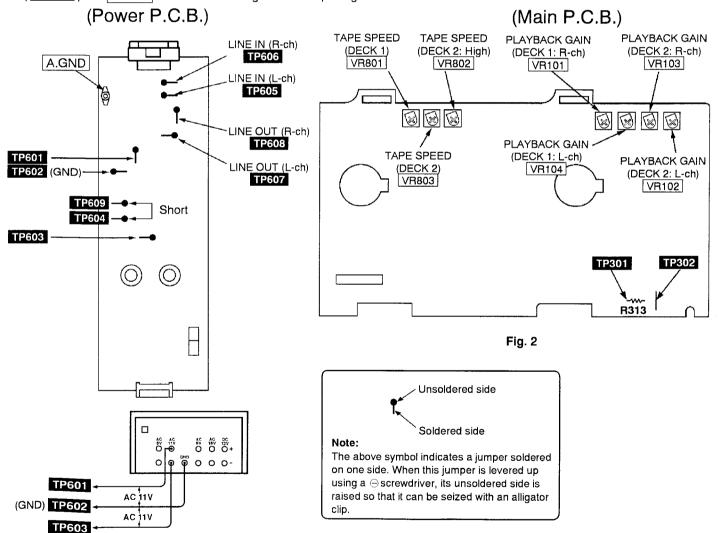
Apply 11 V AC power to test points between TP601 and TP602 (GND), and TP603 and TP602 (GND).

Notes: When operated alone, this unit automatically enter the TEST mode, causing either the DECK1 or DECK2 indicators to blink.

In TEST mode, please make sure whether the Dolby B indication is on or off by the illumination of DECK 1 cassette holder is lighted on or off. (DECK 1 illumination is lighted on: Dolby ON, illumination is lighted off: Dolby OFF)

# To Check Signals

Connect an oscilloscope or a built-in amplifier speaker between line output for L-ch ( TP607 ) and A.GND , and line out for R-ch ( TP608 ) and A.GND and check if the signals are outputting from this unit.



#### **Measurement Condition**

- Dolby NR switch; OFF
- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.

Fig. 1

Judgeable room temperature 20±5°C (68±9°F)

## Measuring instrument

- EVM (Electronic Voltmeter)
- AF oscillator
- Digital frequency counter

#### Test tape

- Head azimuth adjustment (8 kH, -20 dB); QZZCFM
- Tape speed adjustment (3 kHz, -10 dB); QZZCWAT
- Playback gain adjustment (315 Hz, 0 dB); QZZCFM
- Recording/playback frequency response adjustment;
   QZZCFM (315 Hz/0 dB, 315 Hz/-20 dB, 12.5 kHz~63 Hz/-20 dB)
   QZZCRA (Normal blank Tape)
   QZZCRX (CrO2 blank Tape)

QZZCRZ (Metal blank Tape)

# **HEAD AZIMUTH ADJUSTMENT (DECK 1/2)**

- 1. Connect the measuring instrument as shown in Fig. 3.
- 2. Replace azimuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.

Fine adjustment of azimuth can not be performed with remaining the bond on the head base.

(Supply part No. of azimuth adjusting screw: RHD17015)

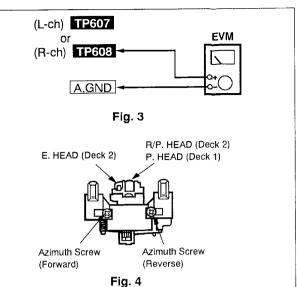
3. Playback the azimuth adjustment portion (8 kHz, -20 dB) of test tape (QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/R-ch are maximized. (Refer to Fig. 4.)

Make sure that the difference in the peak level between the left and right channels does not exceed 0.5 dB.

4. Perform the same adjustment in reverse playback mode.

# Check of the level difference forward and reverse directions

- Playback the playback gain adjustment portion (315 Hz, 0 dB) of test tape (QZZCFM). Check if level difference between forward and reverse direction is within 1.5 dB.
- 6. After the adjustment, apply screwlock to the azimuth adjusting screw.



# TAPE SPEED ADJUSTMENT (DECK 1/2)

Note: When connecting the unit to other system components for testing, short the section between the test points TP609 and TP604 and turn on the entire system. (The unit is set to the TEST mode, and either the DECK1 or DECK2 indicators will blink.)

# Normal speed (Standard value: 3000 ± 45 Hz)

- 1. Playback the middle portion of the test tape (QZZCWAT).
- Adjust Deck 1 = VR801 and Deck 2 = VR803 for the output value shown below. (Refer to Fig. 2)

Adjustment target: 3000  $\pm$  15 Hz (NORMAL speed) Standard value: 3000  $\pm$  45 Hz (NORMAL speed)

# High speed [Set the unit to forward (FWD) mode.]

- 3. Playback the middle portion on the test tape (QZZCWAT).
- 4. Press the one touch tape edit (High) button. This will set the high speed mode.
- 5. At that time, check if the output from DECK 1 is within the standard value.

Standard value: 5000 ± 600 Hz (HIGH speed)

6. Adjust **VR802** so that the output frequency of DECK 2 is within ± **30 Hz** for the value of the output frequency of DECK 1. (Refer to Fig. 2.)

Note: When connecting the unit to other system components, disconnect the short between the test points TP609 and TP604.

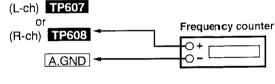
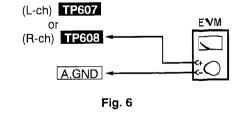


Fig. 5

# PLAYBACK GAIN ADJUSTMENT (DECK1/2)

- 1. Find the start of the 315 Hz/0 dB section of the test tape (QZZCFM), insert the tape into Deck1 and 2, and play it back (FWD)
- 3. Adjust Deck 2: VR102 (L-ch) [VR103 (R-ch)] and Deck 1: VR104 (L-ch) [VR101 (R-ch)] so that the output is within the standard value. (Refer to Fig. 2.)

Standard value : 280 mV ± 15 mV



#### **ERASE CURRENT CONFIRMATION (DECK2)**

- 1. Insert the blank tape into Deck2, and press the REC PAUSE button.
- 3. Check if the output at this time between the erase current confirmation point TP301 and TP302 (the output on both edged of R313) is within the standard value. (Refer to Fig. 7.)

 Standard value
 EVM reading

 Normal tape : 85 ± 25 mA
 (85 ± 25 mV)

 CrO2 tape : 150 ± 25 mA
 (150 ± 25 mV)

 Metal tape : 185 ± 25 mA
 (185 ± 25 mV)

Note: The test tape is not required when confirming the erase current.

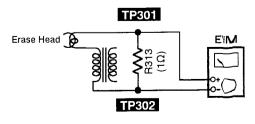
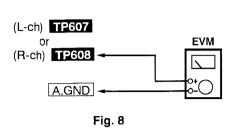


Fig. 7

# Playback frequency response check (DECK 1/2)

Playback the 315 Hz/-20 dB and 12.5 kHz to 63 Hz/-20 dB sections of the test tape (QZZCFM) and then, using the 315 Hz/-20 dB playback output as a reference (0 dB), confirm that the playback frequency response is within the range shown in Fig. 9.



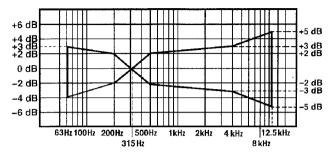


Fig. 9

# Recording/playback frequency response and gain check (DECK 2)

## Normal tape check

- 1. Insert a Normal-type blank tape (QZZCRA) into Deck 2.
- 2. Record signals at 50 Hz, 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 10 kHz and 12.5 kHz (28 mV).
- 3. Set the playback frequency of the recorded signals at 1 kHz as the reference response (0 dB).
- 4. Playback the recorded signals to confirm that the output is within the range of the overall frequency response shown in Fig. 11.

### CrO2/Metal tape check

5. Repeat steps 2 to 4 for each tape and confirm that the output for each is within the range of the overall frequency response shown in Fig. 12.

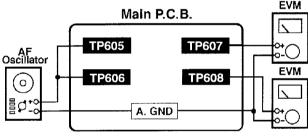


Fig. 10

## Normal Overall frequency response chart (NR OFF)

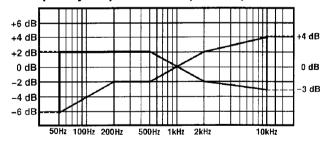


Fig. 11

# CrO<sub>2</sub> Metal Overall frequency response chart (NR OFF)

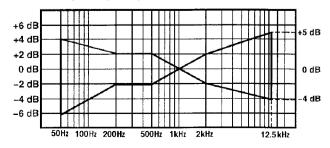


Fig. 12

■ Sc	chematic Diagram
	Page
A MA	AIN CIRCUIT 19~22
	ECHANISM CIRCUIT (DECK 1)
	•
C ME	ECHANISM CIRCUIT (DECK 2) 21
in po	OWER SUPPLY CIRCUIT 22
	WEIT COTT ET CHICOTT
<b>I</b> OF	PERATION CIRCUIT 23
• This so	chematic diagram may be modified at any time with the development of new technology.
• S900	: Stop switch (■)
• S901	: DECK 2 cassette holder open switch ( OPEN)
• S902	: One-touch tape edit switch (TAPE EDIT/HIGH)
• S903	: One-touch tape edit switch (TAPE EDIT/NOR)
• S904	: Record pause switch ( REC PAUSE)
• S905	: Dolby noise reduction switch (DOLBY NR)
● S906 ● S907	: Fast forward/tape program sensor switch ( >>>)
• S907 • S909	: Forward side playback switch (►) : Reverse side playback switch (◄)
• S910	: Rewind/tape program sensor switch (◄◄)
• S911	: Reverse mode select switch (REV MODE)

- S912 : DECK 1/DECK 2 select switch (DECK 1/2) : Counter display switch (COUNTER/DISPLAY) • S913 • S914 : Counter reset switch (COUNTER/RESET) : DECK 1 cassette holder open switch ( OPEN) • S915
- : DECK 1 mode detect switch • S951
- S952 : DECK 1 half detect switch
- : DECK 1 CrO2 tape detect switch • S953
- S971 : DECK 2 mode detect switch
- S972 : DECK 2 half detect switch
- S973 : DECK 2 CrO2 tape detect switch
- : DECK 2 reverse side record prevention tab detect switch • S974
- S975 : DECK 2 forward side record prevention tab detect switch
- \$976 : DECK 2 METAL tape detect switch
- VR101 : DECK 1 Playback gain adjustment (R-ch)
- VR102 : DECK 2 Playback gain adjustment (L-ch)
- VR103 : DECK 2 Playback gain adjustment (R-ch)
- VR104 : DECK 1 Playback gain adjustment (L-ch)
- VR801 : DECK 1 tape speed adjustment (normal)
- VR802 : DECK 2 tape speed adjustment (high)
- VR803 : DECK 2 tape speed adjustment (normal)
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

): Recording No mark: Playback (

Important safety notice:

Components identified by  $\bigwedge$  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

# Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

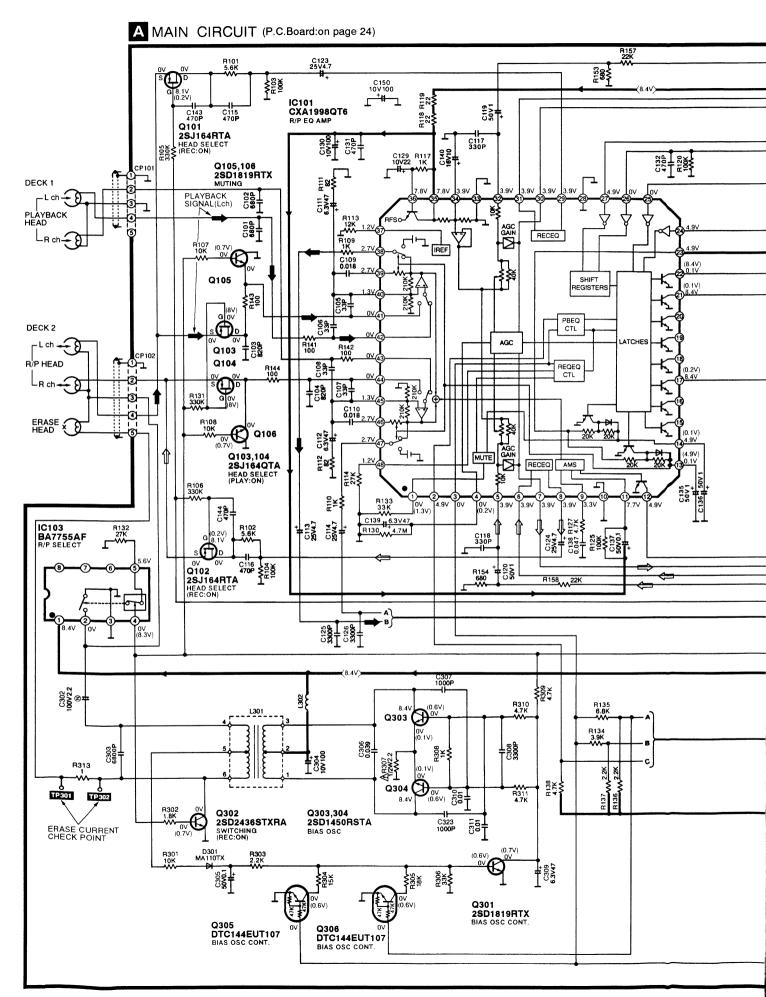
Ground the soldering iron.

Put a conductive mat on the work table.

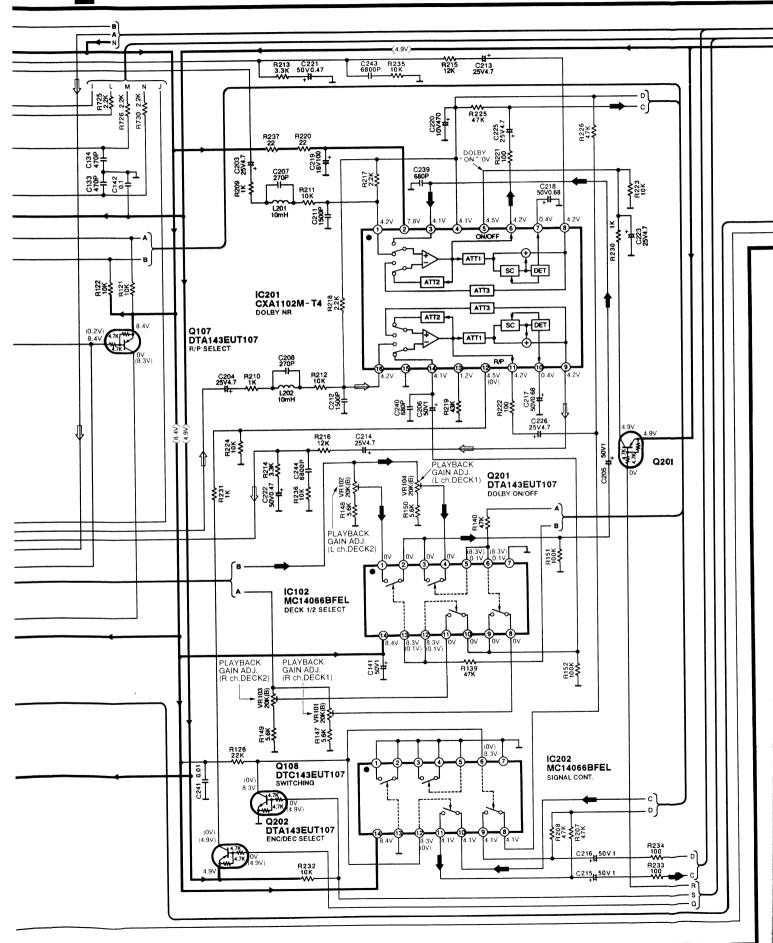
Do not touch the legs of IC or LSI with the fingers directly.

#### Voltage and signal line

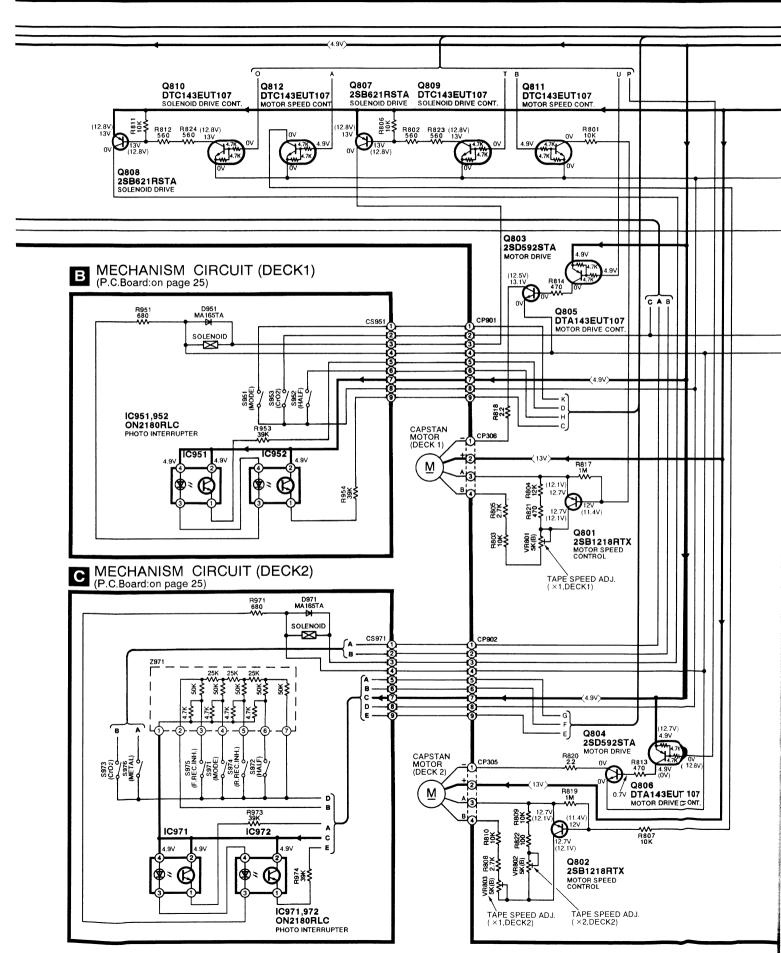
: Playback signal Line > : Recording signal Line : Positive voltage line



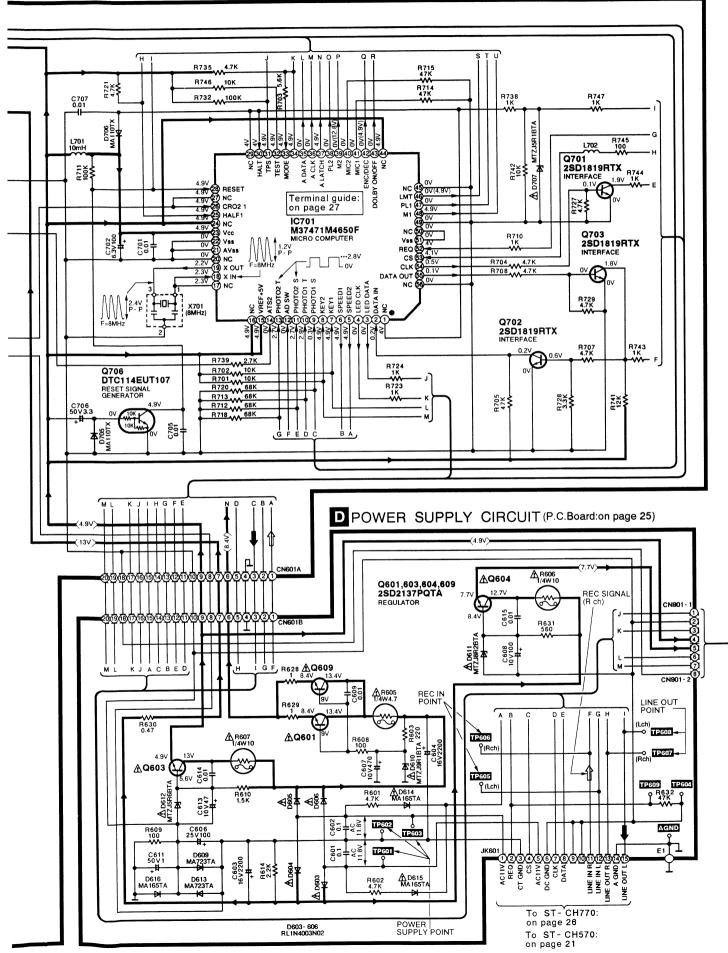
# A MAIN CIRCUIT (P.C.Board:on page 24)



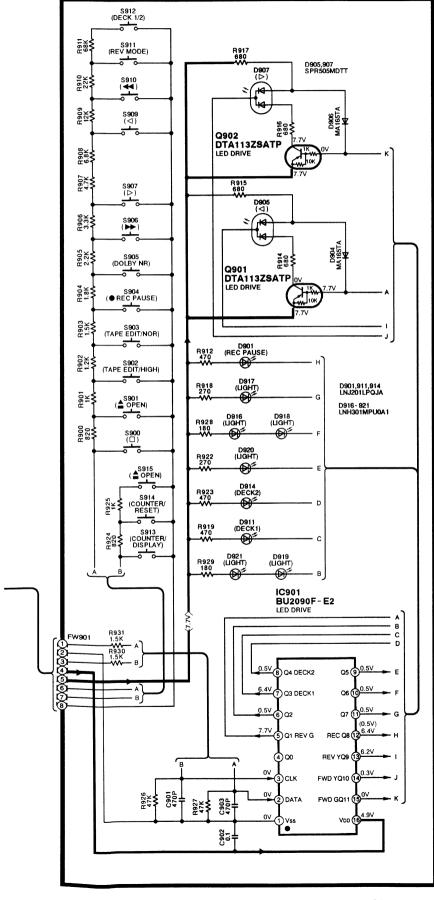




A MAIN CIRCUIT (P.C.Board:on page 24)

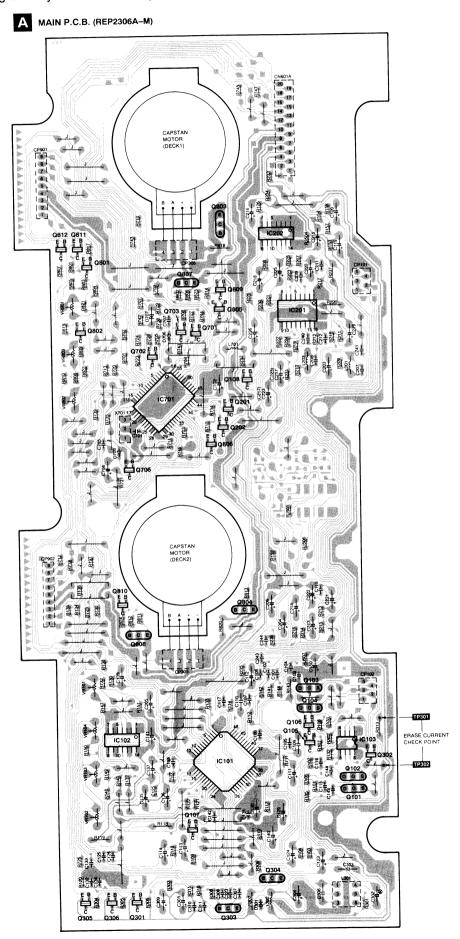


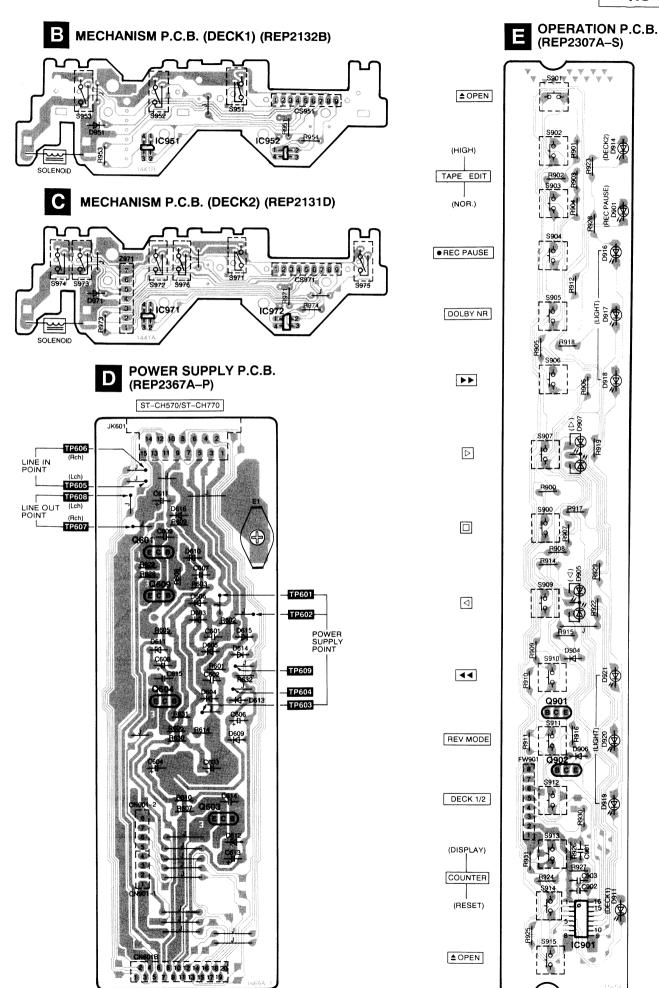
E OPERATION CIRCUIT (P.C.Board:on page 25)

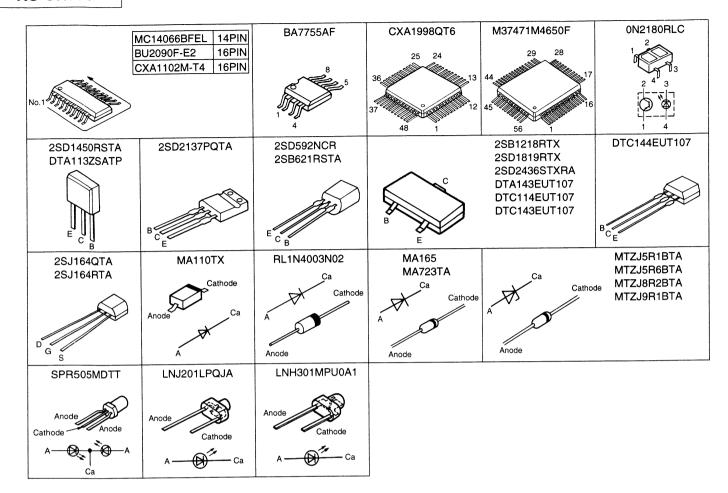


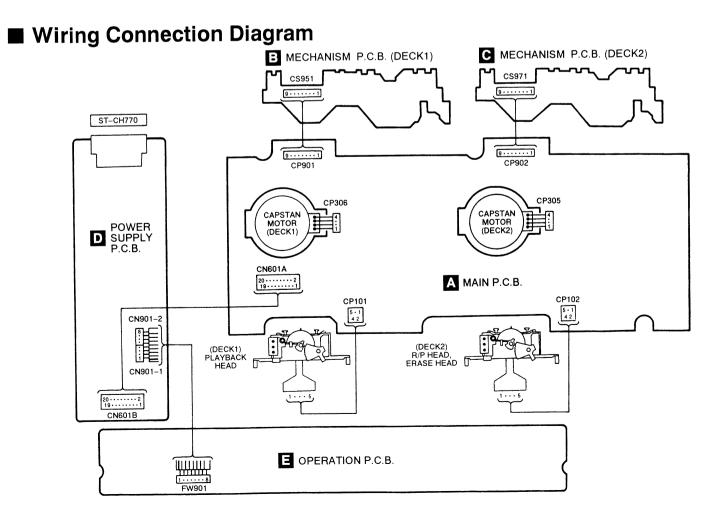
# ■ Printed Circuit Board Diagram

• This circuit board diagram may be modified at any time with the development of new technology.









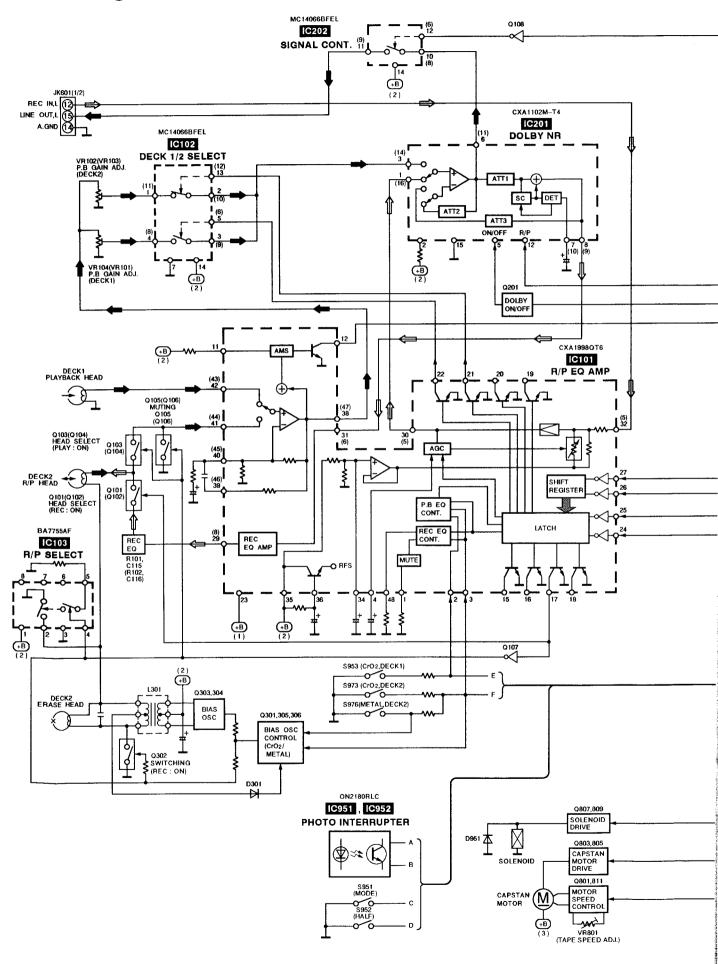
# **■** Function of IC Terminals

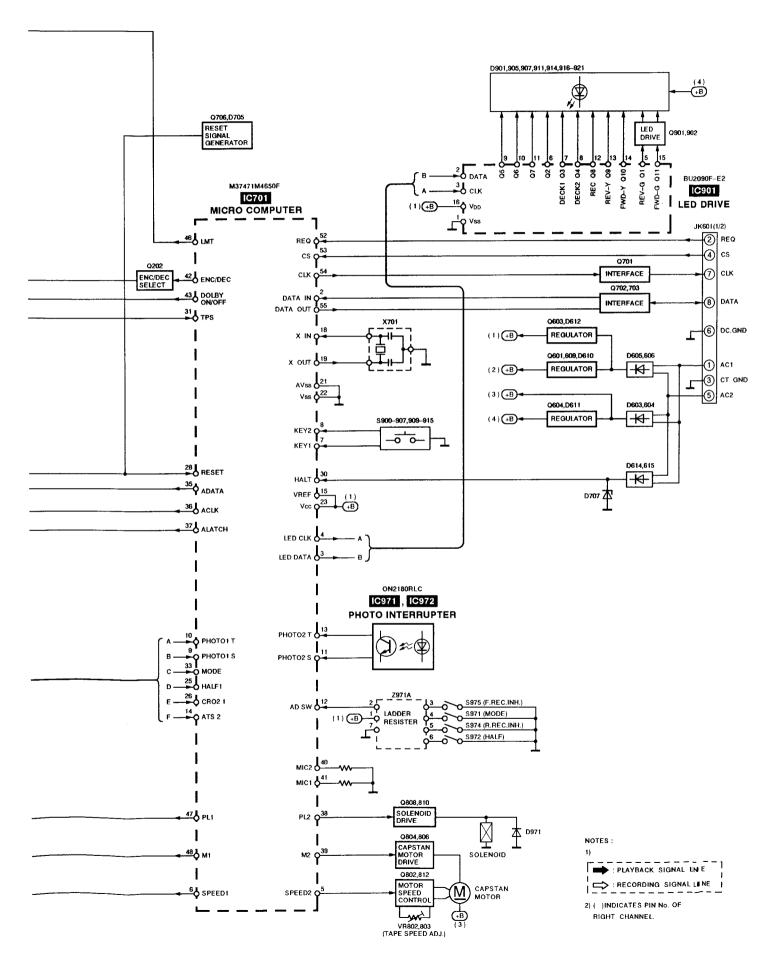
# • IC701 (M37471M4650F)

Pin No.	Terminal Name	I/O	Function
1	N.C.	_	Not used
2	DATA IN	1	Serial data input
3	LED-DATA	0	Serial data signal output for LED drive IC
4	LED-CLK	0	Serial clock signal output for LED drive IC
5	SPEED2	0	DECK 2 motor speed control signal output
6	SPEED1	0	DECK 1 motor speed control signal output
7, 8	KEY1, 2	ı	Operation switch signal input
9	PHOTO1-S	ı	DECK 1 supply side reel pulse input
10	РНОТО1-Т	I	DECK 1 take-up side reel pulse input
11	PHOTO2-S	ì	DECK 2 supply side reel pulse input
12	AD-SW	ı	DECK 2 mechanism switch signal input (Half, Mode, F. REC INH., R. REC INH.)
13	РНОТО2-Т	ı	DECK 2 take-up side reel pulse input
14	ATS2	ı	DECK 2 mechanism switch signal input (NORMAL/CrO2/METAL)
15	VREF	_	Reference voltage input terminal for A/D converter (+5 V)
16, 17	N.C.	-	Not used
18	XIN	ı	Clock signal input
19	XOUT	0	Clock signal output
20	N.C.	_	Not used
21	AVSS	_	Connect to GND
22	VSS	-	GND terminal
23	VCC	-	Power supply (+5 V)
24	N.C.	_	Not used
25	HALF1	ı	DECK 1 mechanism switch signal input (Half)
26	CRO2-1	ı	DECK 1 mechanism switch signal input (NORMAL/CrO2)
27	N.C.		Not used
28	RESET	ı	Reset signal input

Pin No.	Terminal Name	I/O	Function
29	N.C.	1	Not used
30	HALT	ı	AC power source detect signal input
31	TPS	ı	TPS signal input
32	TEST	1	Test mode select signal input
33	MODE	ı	DECK 1 mechanism switch signal input (Mode)
34	N.C.		Not used
35	A-DATA	0	Serial data signal output for audio IC
36	A-CLK	0	Serial clock signal output for audio IC
37	A-LATCH	0	Serial latch signal output for audio IC
38	PL2	0	DECK 2 solenoid drive signal output
39	MOTOR2	0	DECK 2 motor drive signal output
40, 41	MIC2, 1	0	Not used
42	ENC/DEC	0	DOLBY NR record/play mode select signal output
43	DOLBY ON/OFF	0	DOLBY NR ON/OFF control signal output
44, 45	N.C.	_	Not used
46	LMT	0	Muting control signal output
47	PL1	0	DECK 1 solenoid drive signal output
48	MOTOR1	0	DECK 1 motor drive signal output
49	_		Not used
50	N.C.	_	Not used
51	VSS	_	GND terminal
52	REQ	I	Serial communication request signal input
53	CS	0	Serial communication complete signal output
54	CLK	0	Serial communication clock signal output
55	DATA OUT	0	Serial communication data signal งบtput
56	N.C.	_	Not used

# **■** Block Diagram





# ■ Replacement Parts List

Notes: \*Important safety notice:
Components identified by ≜ mark have special characteristics important for safety.
Components identified by ≜ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
\*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
\*[M] Indicates in Remarks columns parts that are supplied by MESA.

IC101 CXA1998QT6 IC102 MC14066BFE IC103 BA7755AF IC201 CXA1102M-1 IC202 MC14066BFE IC701 M37471M465 IC901 BU2090F-EZ IC951, 952 ON2180RLC IC971, 972 ON2180RLC IC971, 972 ON2180RLC Q101, 102 2SJ164QTA Q103, 104 2SJ164QTA Q105, 106 2SD1819RT Q201, 202 DTA143EUT Q201, 202 DTA143EUT Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SD2137PQ Q805, 806 DTA143EUT Q807, 808 2SD621RST Q807, 808 2SB621RST Q807, 808 2SB621RST Q807, 808 2SB621RST Q807, 902 DTA1137SA	o. Part Name & Descr	iption Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
IC102   MC14066BFE   IC103   BA7755AF   IC201   CXA1102M-1   IC202   MC14066BFE   IC701   M37471M465   IC901   BU2090F-EZ   IC951, 952   ON2180RLC   IC971, 972   IC771, 972			D614, D615	MA165	DIODE	$\Delta$
IC102 MC14066BFE IC103 BA7755AF IC201 CXA1102M-1 IC202 MC14066BFE IC701 M37471M465 IC901 BU2090F-E2 IC991, 952 ON2180RLC IC991, 972 ON2	INTEGRATED CIRCUIT (S	S)	D616	MA165	DIODE	
IC102 MC14066BFE IC103 BA7755AF IC201 CXA1102M-1 IC202 MC14066BFE IC701 M37471M465 IC901 BU2090F-E2 IC991, 952 ON2180RLC IC991, 972 ON2			D705, 706	MA110TX	DIODE	
IC103	6 IC, R/P EQ AMP.		D707	MTZJ5R1BTA	DIODE	Δ
IC103			D901	LNJ201LPQJA	L. E. D.	
IC201 CXA1102M-1 IC202 MC14066BFE IC701 M37471M465 IC901 BU2090F-E2 IC951, 952 ON2180RLC IC971, 972 ON2180RLC IC971, 972 ON2180RLC  Q101, 102 2SJ164QTA Q103, 104 2SJ164QTA Q105, 106 2SD1819RT Q107 DTA143EUT Q201, 202 DTA143EUT Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q609 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	IC, REC/PLAY SELECT		D904	MA165	DIODE	
IC202 MC14066BFE IC701 M37471M465 IC901 BU2090F-E2 IC951, 952 ON2180RLC IC971, 972 ON2180RLC IC971, 972 ON2180RLC  Q101, 102 2SJ164QTA Q103, 104 2SJ164QTA Q105, 106 2SD1819RT Q107 DTA143EUT Q301 2SD1819RT Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q609 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q801, 902 DTA113ZSA	T4 IC, DOLBY NR		D905	SPR505MDTT	L. E. D.	
IC701   M37471M465     IC901   BU2090F-E2     IC951, 952   ON2180RLC     IC971, 972   ON2180RLC			D906	MA165	DIODE	
CO   BU2090F-E2			D907	SPR505MDTT	L. E. D.	
IC951, 952		DMO	D911	LNJ201LPQJA	L. E. D.	
C971, 972   ON2180RLC			D914	LNJ201LPQJA	L. E. D.	
Q101, 102			D916-921	LNH301MPU0A1	L. E. D.	-
Q103, 104	10, TIMIO INTERROLLE		D951	MA165	DIODE	
Q103, 104	TRANSISTOR(S)		D971	MA165	DIODE	
Q103, 104	Thansiston(s)		103/1	MESTOO	71000	
Q103, 104	A TRANSISTOR				VARIABLE RESISTOR(S)	· · · · · · · · · · · · · · · · · · ·
Q105, 106					TARTABLE RESISTOR(S)	
Q107 DTA143EUT Q108 DTC143EUT Q201, 202 DTA143EUT Q301 2SD181 9RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SD2137PQ Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA			VR101	EVNDCAA03B24	DECK 1 PLAYBACK GAIN(R-ch)	
Q108 DTC143EUT Q201, 202 DTA143EUT Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA				EVNDCAA03B24 EVNDCAA03B24	DECK 2 PLAYBACK GAIN(L-ch)	
Q201, 202 DTA143EUT Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA			VR102		DECK 2 PLAYBACK GAIN(R-ch)	
Q301 2SD1819RT Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA			VR103	EVNDCAA03B24		
Q302 2SD2436ST Q303, 304 2SD1450RS Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SD2128RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA			VR104	EVNDCAA03B24	DECK 1 PLAYBACK GAIN(L-ch)	
Q303, 304			VR801	EVNDCAA03B53	DECK 1 TAPE SPEED (NORMAL)	
Q305, 306 DTC144EUT Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	TXRA TRANSISTOR		VR802	EVNDCAA03B53	DECK 2 TAPE SPEED (HIGT)	
Q601 2SD2137PQ Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	STA TRANSISTOR		VR803	EVNDCAA03B53	DECK 2 TAPE SPEED (NORMAL)	
Q603, 604 2SD2137PQ Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q809-812 DTC143EUT Q901, 902 DTA113ZSA	T107 TRANSISTOR					
Q609 2SD2137PQ Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	QTA TRANSISTOR	Δ			COIL(S)	-
Q701-703 2SD1819RT Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	QTA TRANSISTOR	Δ				
Q706 DTC114EUT Q801, 802 2SB1218RT Q803, 804 2SD592NCR Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA	QTA TRANSISTOR	<b>A</b>	L201, 202	ELELN103KA	COIL	
Q801, 802	TX TRANSISTOR		L301	RL08B006-K	COIL	
Q803, 804	T107 TRANSISTOR		L302	RLQZB101KT-D	COIL	
Q805, 806 DTA143EUT Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA D301 MA110TX	TX TRANSISTOR		L701	RLQA100JT-Y	COIL	
Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA D301 MA110TX	R TRANSISTOR		L702	ELJPC330KF	COIL	
Q807, 808 2SB621RST Q809-812 DTC143EUT Q901, 902 DTA113ZSA D301 MA110TX	T107 TRANSISTOR					
Q809-812 DTC143EUT Q901, 902 DTA113ZSA D301 MA110TX					OSC ILLATOR (S)	
Q901, 902 DTA113ZSA D301 MA110TX						
D301 MA110TX			X701	EF0EC8004T4	OSCILLATOR (8 MHz)	
	DIODE (S)				SWITCH(ES)	
	22020					
	DIODE		S900	EVQ21405R	SW, STOP	
000 DETH-0000		<u> </u>	S901	EVQ21405R	SW, DECK 2 OPEN	
D609 MA723TA	DIODE	<u> </u>	S902	EVQ21405R	SW, TAPE EDIT/HIGT	
		Δ	S903	EVQ21405R	SW, TAPE EDIT/NOR	
		<u> </u>	S904	EVQ21405R EVQ21405R	SW, REC PAUSE	<del>                                     </del>
			S904 S905	EVQ21405R	SW, DOLBY NR	
D612 MTZJ5R6BT D613 MA723TA	TA DIODE DIODE	<u> </u>	S906	EVQ21405R EVQ21405R	SW, FF TPS	

	· · · · · · · · · · · · · · · · · · ·						T
Ref. No.	Part No.	Part Name & Description	Remarks				
S907	EVQ21405R	SW, FWD PLAY					
S909	EVQ21405R	SW, REV PLAY					
S910	EVQ21405R	SW, REW TPS					
S911	EVQ21405R	SW, REV MODE SELECT					
S912	EVQ21405R	SW, DECK 1/2 SELECT					
S913	EVQ21405R	SW, COUNTER DISPLAY					
S914	EVQ21405R	SW, COUNTER/RESET					
S915	EVQ21405R	SW, DECK 1 OPEN					
S951	RSH1A018-1U	SW, DECK 1 MODE	:				
S952	RSH1A019-2U	SW, DECK 1 HALF					
S953	RSH1A019-2U	SW, DECK 1 ATS/CrO2					
S971	RSH1A018-1U	SW, DECK 2 MODE					
S972	RSH1A019-2U	SW, DECK 2 HALF					
S973	<del> </del>	SW, DECK 2 ATS/CrO2					
S974	<u> </u>	SW, DECK 2 R. REC. INH.					,
S975		SW, DECK 2 F. REC. INH.					
S976	RSH1A019-2U	SW, DECK 2 ATS/METAL					
	ILICITATE E	OH, DEGREE MICHIELME					
	-	JACK (S)					
		onon (b)					2
JK601	RJT065K15	SYSTEM CONNECTOR (15P)					
37001	UN TOOOKTO	SISTEM CONNECTOR (13F)					
		CONNECTOR (S)					
		CONNECTOR (S)					
(N)001 1 0	D 701 + 000 4	CONTROTTOD (AD)		-			
CN901-1, 2	RJS1A6604	CONNECTOR (4P)	DO.				
CN601A	RJT077K20	CONNECTOR (20P)	[M]				
CN601B	RJU077K20	CONNECTOR (20P)	[M]				
CP101, 102	RJS1A6805	CONNECTOR (5P)					
CP305, 306	RJR0113	CONNECTOR (MOTOR) (4P)					
CP901, 902	RJT071H09A	CONNECTOR (9P)					
CS951	RJU071H09M	CONNECTOR (9P)					
CS971	RJU071HD9M	CONNECTOR (9P)					
						,	
		COMPONENT COMBINATION					
Z971	EXBF7L355SYV	COMPONENT COMBINATION					
		GND PLATE					
E1	SNE1004-2	GND PLATE					
	1						
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Notes : \* Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F) 
\* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Val	ues & Remarks	Ref. No.	Part No.	Val	ues & Remarks
			R233, 234	ERJ6GEYJ101V	1/10W	100	R745	ERJ6GEYJ101V	1/10W	100
		RESISTORS	R235, 236	ERJ6GEYJ103V	1/10W	10K	R746	ERJ6GEYJ103V	1/10W	10K
			R237	ERDS2TJ220T	1/4W	22	R747	ERJ6GEYJ102V	1/10W	1K
R101, 102	ERJ6GEYJ562V	1/10W 5.6K	R301	ERJ6GEYJ103V	1/10W	10K	R801	ERJ6GEYJ103V	1/10W	10K
R103, 104	ERJ6GEYJ104V	1/10W 100K	R302	ERJ6GEYJ182V	1/10W	1. 8K	R802	ERJ6GEYJ561V	1/10W	560
R105, 106	ERJ6GEYJ334V	1/10W 330K	R303	ERJ6GEYJ222V	1/10W	2. 2K	R803	ERJ6GEYJ103V	1/10W	10K
R107, 108	ERJ6GEYJ103V	1/10W 10K	R304	<b></b>	1/10W	15K	R804	ERJ6GEYJ123V	1/10W	12K
R109, 110	ERJ6GEYJ102V	1/10W 1K	R305	ERJ6GEYJ183V	1/10W	18K	R805	ERJ6GEYJ272V	1/10W	2. 7K
R111	ERJ6GEYJ820V	1/10W 82	R306	ERJ6GEYJ333V	1/10W	33K	R806, 807	ERJ6GEYJ103V	1/10W	10K
R112	ERJ8GEYJ820V	1/8W 82	R307.△	ERDS1FVJ2R2T	1/2W	2. 2	R808	ERJ6GEYJ272V	1/10W	2. 7K
R113	ERJ6GEYJ123V	1/10W 12K	R308	ERJ6GEYJ102V	1/10W	1K	R809-811	ERJ6GEYJ103V	1/10W	10K
R114	ERJ6GEYJ273V	1/10W 27K	R309-311	ERJ6GEYJ472V	1/10W	4. 7K	R812	ERJ6GEYJ561V	1/10W	560
R117	ERJ6GEYJ102V	1/10W 2/K	R313	ERDS2TJ1RO	1/4W	1.0	R813, 814	ERJ6GEYJ471V	1/10W	470
		1/4W 22	R601, 602	ERDS2TJ472	1/4W	4. 7K	R817	ERJ6GEYJ105	1/10W	1M
R118, 119 R120	ERDS2TJ220T	1/4W 22 1/10W 100K	R603	ERDS2TJ221	1/4W	220	R818	ERDS2TJ2R2T	1/4₩	2. 2
	ERJ6GEYJ104V		R605∆∆	ERD2FCVJ4R7T	1/4W	4.7	R819	ERJ6GEYJ105	1/10W	1M
R121, 122	ERJ6GEYJ103V			ERD2FCVJ4R71 ERD2FCVG100T	1/4W	10	R820	ERDS2TJ2R2T	1/4W	2. 2
R125	ERJ6GEYJ104V	1/10W 100K	R606, 607∆		+	100	R821	ERJ6GEYJ471V	1/10W	470
R126	ERJ6GEYJ223V	1/10W 22K	R608, 609	ERDS2TJ101	1/4W		R822	ERJ6GEYJ101V	1/10W	100
R127	ERJ6GEYJ472V	1/10\ 4.7K	R610	ERDS2TJ152	1/4W	1. 5K			ļ <u>'</u> — — —	560
R130	ERJ6GEYJ475V	1/10W 4.7M	R614	ERDS2TJ222	1/4W	2. 2K	R823, 824	ERJ6GEYJ561V	1/10W	820
R131	ERJ6GEYJ334V	1/10W 330K	R628, 629	ERDS2TJ1R0	1/4W	1. 0	R900	ERDS2TJ821	1/4W	
R132	ERJ6GEYJ273V	1/10W 27K	R630	ERDS2TJR47T	1/4W	0. 47	R901	ERDS2TJ102	1/4W	1K
R133	ERJ6GEYJ333V	1/10W 33K	R631	ERDS2TJ561	1/4W	560	R902	ERDS2TJ122	1/4W	1. 2K
R134	ERJ6GEYJ392V	1/10W 3.9K	R632	ERDS2TJ473	1/4W	47K	R903	ERDS2TJ152	1/4W	1. 5K
R135	ERJ6GEYJ682V	1/10W 6.8K	R701, 702	ERJ6GEYJ103V	1/10W	10K	R904	ERDS2TJ182	1/4W	1. 8K
R136, 137	ERJ6GEYJ222V	1/10W 2.2K	R703	ERJ6GEYJ562V	1/10W	5. 6K	R905	ERDS2TJ222	1/4W	2. 2K
R138	ERJ6GEYJ472V	1/10W 4.7K	R704	ERJ6GEYJ472V	+	4. 7K	R906	ERDS2TJ332	1/4W	3. 3K
R139, 140	ERJ6GEYJ473V	1/10W 47K	R705	ERJ6GEYJ473V	1/10W	47K	R907	ERDS2TJ472	1/4W	4. 7K
R141	ERJ8GEYJ101V	1/8W 100	R707, 708	ERJ6GEYJ472V	1/10W	4. 7K	R908	ERDS2TJ682T	1/4W	6. 8K
R142	ERJ6GEYJ101V	1/10W 100	R710	ERJ6GEYJ102V	1/10W	1K	R909	ERDS2TJ123	1/4W	12K
R143	ERDS2TJ101	1/4W 100	R711	ERJ6GEYJ104V	1/10W	100K	R910	ERDS2TJ223	1/4W	2 <b>2</b> K
R144	ERJ6GEYJ101V	1/10W 100	R712, 713	ERJ6GEYJ683V	1/10W	68K	R911	ERDS2TJ683	1/4W	6 <b>8</b> K
R147-150	ERJ6GEYJ562V	1/10W 5.6K	R714, 715	ERJ6GEYJ473V	1/10W	47K	R912	ERDS2TJ471	1/4W	470
R151, 152	ERJ6GEYJ104V	1/10W 100K	R718	ERJ8GEYJ683V	1/8W	68K	R914-917	ERDS2TJ681	1/4W	680
R153, 154	ERJ6GEYJ681V	1/10\ 680	R720	ERJ6GEYJ683V	1/10W	68K	R918	ERDS2TJ271	1/4W	270
R157, 158	ERJ6GEYJ223V	1/10W 22K	R721	ERJ6GEYJ472V	1/10W	4. 7K	R919	ERDS2TJ471	1/4W	470
R207, 208	ERJ6GEYJ473V		R723, 724	ERJ6GEYJ102V	1/10W	1K	R922	ERDS2TJ271	1/4W	270
R209, 210	ERJ6GEYJ102V	· · · · · · · · · · · · · · · · · ·	R725, 726	ERJ6GEYJ222V	1/10W	2. 2K	R923	ERDS2TJ471	1/4W	470
R211, 212	ERJ6GEYJ103V		R727	ERJ6GEYJ472V	+	4. 7K	R924	ERDS2TJ821	1/4W	820
R213, 214	ERJ6GEYJ332V		R728	ERJ6GEYJ332V		3. 3K	R925	ERDS2TJ102	1/4W	1K
R215, 216	ERJ6GEYJ123V		R729	ERJ6GEYJ472V	<del></del>	4. 7K	R926, 927	ERDS2TJ473	1/4W	47K
R217, 218	ERJ6GEYJ222V	<del></del>	R730	ERJ6GEYJ222V	+	2. 2K	R928, 929	ERDS2TJ181T	1/4W	1 <b>8</b> 0
R219	ERJ6GEYJ433V		R732	ERJ6GEYJ104V	+	100K	R930, 931	ERDS2TJ152	1/4W	1. 5K
R220	ERDS2TJ220T	1/4W 22	R735	ERJ6GEYJ472V		4. 7K	R951	ERDS2TJ681T	1/4W	6 <b>8</b> 0
R221, 222	ERJ6GEYJ101V	<u> </u>	R738	ERJ6GEYJ102V		1K	R953, 954	ERDS2TJ393T	1/4W	3 <b>9</b> K
R223, 224			R739	ERJ6GEYJ272V	+	2. 7K	R971	ERDS2TJ681T	1/4W	680
	ERJ6GEYJ103V				+	12K	R973, 974	ERDS2TJ393T	1/4W	3 <b>9</b> K
R225, 226	ERJ6GEYJ473V		R741	ERJ6GEYJ123V			n313, 314	LRD3213331	1/4#	J_/II
R230, 231	ERJ6GEYJ102V		R742	ERJ6GEYJ103V		10K			CUID T	IMIC ID (C)
R232	ERJ6GEYJ103V	1/10W 10K	R743, 744	ERJ6GEYJ102V	1/10₩	1K	]	<u> </u>	CHIP J	UMPEIR(S)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks			
			C310, 311	ECUV1H103KBN	50V 0.01U			
J504-506	ERJ6GEYOROOV	1/10W 0	C323	ECUV1H102KBN	50V 1000P			
J507	ERJ8GEYOROOV	1/8W 0	C601, 602	ECFR1H104ZF	50V 0. 1U			
			C603, 604	ECA1CM222B	16V 2200U			
		CAPACITORS	C606	ECA1EM101B	25V 100U			
			C607	ECA1AM471B	10V 470U			
C101, 102	ECUV1H681KBN	50V 680P	C608	ECEA1AKA101B	10V 100U			
C103, 104	ECUV1H821KBN	50V 820P	C609	ECBT1E103ZF	25V 0.01U			
C105-108	ECUV1H330JCN	50V 33P	C611	ECEA1HKA010B	50V 1U			
C109, 110	ECQB1H183JF3	50V 0. 018U	C613	ECEA1AKA470B	10V 47U			
C111, 112	ECEAOJKA470B	6. 3V 47U	C614, 615	ECBT1E103ZF	25V 0.01U			
C113, 114	ECEA1EKA4R7B	25V 4. 7U	C701	ECUV1H103KBN	50V 0.01U			
C115, 116	ECUV1H471KBN	50V 470P	C702	ECEAOJKA101B	6. 3V 100U			
C117, 118	ECUV1H331KBN	50V 330P	C705	ECUV1E103ZFN	25V 0.01U	_		
C119, 120	ECEA1HKA010B	50V 1U	C706	RCE1HKA3R3BG	50V 3. 3U			
C123, 124	ECEA1EKA4R7B	25V 4. 7U	C707	ECUV1E103ZFN	25V 0.01U			
C125, 126	ECUV1H332KBN	50V 3300P	C901	ECBT1H471KB5	50V 470P			
C129	ECEA1AKA220B	10V 22U	C902	ECBT1H104ZF5	50V 0. 1U			
C130	RCE1AKA101BG	10V 100U	C903	ECBT1H471KB5	50V 470P			
C131-134	ECUV1H471KBN	50V 470P						
C135, 136	ECEA1HKAO10B	50V 1U						
C137	ECEA1HKAOR1B	50V 0.1U						_
C138	ECUV1E473KBN	25V 0.047U						
C139	ECEAOJKA470B	6. 3V 47U						
C140	RCE1CKA100BG	16V 10U						
C141	ECEA1HKA010B	50V 1U						
C142	ECUV1E104ZFN	25V 0. 1U						-
C143, 144	ECUV1H471KBN	50V 470P						-
C150	RCE1AKA101BG	10V 100U						
C203, 204	ECEA1EKA4R7B	25V 4. 7U						
C205, 206	ECEA1HKAO10B	50V 1U	1					
C207, 208	ECUV1H271KBN	50V 270P	1					
C211, 212	ECUV1H152KBN	50V 1500P	1					
C213, 214	ECEA1EKA4R7B	25V 4. 7U	-					
C215, 216	ECEA1HKAO10B	50V 1U	l					
C217, 218	ECEA1HKAR68B	50V 0. 68U	l					
C219	ECEA1CKA101B	16V 100U	1					
C220	RCE1ARC471BG	10V 470U	1					
C221, 222	RCE1HKAR47BG	50V 0. 47U	<u> </u>					
C223	ECEA1EKA4R7B	25V 4. 7U					<u> </u>	
C225, 226	ECEA1EKA4R7B	25V 4. 7U	1					
C239, 240	ECUV1H681KBN	50V 680P	1		,			
C241	ECUV1H103KBN	50V 0. 01U	11					7
C243, 244	ECUV1H682KBN	50V 6800P	1				*******	
C302	ECEA2AN2R2SB	100V 2. 2U	<b>  </b>		·			
C303	ECQP2E682JZT	250V 6800P	1	-				
C304	RCE1AKA101BG	10V 100U	<b> </b>	-				
C305	ECEA1HKAOR1B	50V 0. 1U	<b> </b>	<del> </del>				
C306	ECQB1H393JF3	50V 0. 039U	<b> </b>	<b></b>				
C307	ECUV1H102KBN	50V 1000P		-				
C308	ECUV1H102KBN	50V 3300P	11					
C309	<del> </del>		<b> </b>	-			· · · · · · · · · · · · · · · · · · ·	
0000	ECEAOJKA470B	6. 3V 47U	<u> </u>	1		L		

Note: The reference number SA represent the grease and tool used for this unit.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
				117	RML0371	LEVER	
		CABINET PARTS		118	RML0372	LEVER	
				119	RML0374	LEVER	
	RKM0290-K	TOP CABINET		120	RMM0131	ROD	
		SCREW		121	RMM0133	ROD	
<u> </u>		SCREW		122	RMQ0519	REEL CAP	
3		BOTTOM FRAME		123	<del></del>	SHAFT	
		FRONT PANEL ASS' Y		124		PLUNGER ASS' Y	
<u> </u>		FOOT		125	RUS609ZC	SPRING	
<u> </u>	RKA0068-N RMA0969	GND PLATE		126	RXF0049	FLYWHEEL ASS' Y	
7		HOLDER		127	RXF0050	FLYWHEEL ASS' Y	
3				128	RXG0040	GEAR	
3	RSC0453	SHIELD PLATE		129	RMKD283	SUB CHASSIS	
10	RSC0454	SHIELD PLATE	[M]	130	RXL0124	PINCH ROLLER ASS' Y	
11	RDG0129-1	GEAR	[[m]]	130-1	RMB0401	SPRING	
12	SHG1654	RUBBER			RXL0125	PINCH ROLLER ASS' Y	
13	REZ0886	FLAT CABLE (8P) (FW901)		131		SPRING	
14		BUTTON ASS' Y		131-1	RMB0402	ARM GEAR	
15	<del> </del>	CASSETTE HOLDER(L) ASS' Y		132	RXL0126		
15-1	RUS757ZA	SPRING		133	RXQ0412	CHASSIS ASS' Y	
16	RFKLACH430GB	CASSETTE HOLDER(R) ASS' Y		133-1	RMB0405	SPRING	
16-1	RUS757ZA	SPRING		133-2	RMM0132	ROD	
17	RMB0474	SPRING		134	REMO055	MOTOR ASS' Y	
18	RMQ0577-1	FRAME		135	RHD26022	SCREW	
19	RYF0412-K	CASSETTE LID(L)		136	XTW2+5L	SCREW	
19-1	RGL0340-Q	PANEL LIGHT		137	XTW26+10S	SCREW	
19-2	RKW0461-Q	PANEL		138	XYC2+JF17	SCREW	
20	RYF0413-K	CASSETTE LID(R)		140	RFKJSCH770EK	MAIN CHASSIS ASS'Y	
20-1	RGL0340A-Q	PANEL LIGHT					
20-2	RKW0462-Q	PANEL				GREASE OR JIG/TOOL	
21	XTBS26+10J	SCREW					
22	XTBS26+8J	SCREW		SA1	QZZCFM	TEST TAPE (AZ IMUTH/FREQ. etc)	
23	XTB3+10JFZ	SCREW		SA2	QZZCWAT	TEST TAPE (TAPE SPEED. etc)	
24	RMR1008-Q	LED HOLDER		SA3	QZZCRA	BLANK TAPE (NORMAL POSITION)	
				SA4	QZZCRX	BLANK TAPE (CrO2 POSITION)	
		MECHANISM PARTS		SA5	QZZCRZ	BLANK TAPE (METAL POSITION)	
				SA6	RZZOL01	SCREW LOCKING BOND	
101	RED0037	HEAD BLOCK(R/P)					
101-1	RHD17015	SCREW					
102	RED0038	HEAD BLOCK(P. B)					
102-1	RHD17015	SCREW					
103	RDG0300	REEL TABLE ASS' Y					
104	RDG0301	GEAR					
105	RDK0026	GEAR					
107	RDV0033-1	BELT1					
108	RDV0033-1	BELT2	1				-
110	RUW147ZA	SPRING					
1111		SPRING					
	RMB0400						
112	RMB0403	SPRING			-		
113	RMB0404	SPRING			+		
114	RMB0406	SPRING					
115	RMB0408	SPRING			'		
116	RML0370	LEVER				<u> </u>	

# RS-CH770 **■** Cabinet Parts Location 1 (2)<sub>Q</sub> CP901 **a**2 CN601A CP101 CP305 В (1) 8 JK601 **3** CN901-2 CN901-1 D CN601B (15-1) 1 (16-1)Ε 19 (19-1)

19-2

20-2

